



## SABERTOOTH 55i Born for Reliability

- Supports the Intel® Core™ i7 and Intel® Core™ i5 Processors in the LGA1156 Package
- Intel® P55 Express Chipset
- CeraM!X Heatsink Coating Tech.
- CoolMem! Fan Frame
- E.S.P. [Efficient Switching Power]
- TUF Caps. & MOSFETs



## TUF /tAf/, stands for The Ultimate Force.

The TUF series delivers a “tough” image. With the unique design & high quality components (military-standard), TUF series is born for pursuing the preeminent stability, all-round compatibility, and extreme durability



### CPU, Chipset and Graphics features

#### LGA1156 Intel® Lynnfield Processor Ready

This motherboard supports the latest Intel® Lynnfield processors in LGA1156 package which has memory and PCI Express controller integrated to support 2-channel (4 DIMMs) DDR3 memory and 16 PCI Express 2.0 lanes providing great graphics performance. Intel® Lynnfield processor is one of the most powerful and energy efficient CPU in the world.



#### Intel P55

The Intel® P55 Express Chipset is the latest one-chipset design to support latest 1156 socket Intel® Core™ i7/Core™ i5 Processors. Intel® P55 providing improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability.



#### Quad-GPU SLI and Quad-GPU CrossFireX Support!

SABERTOOTH 55i brings you the multi-GPU choice of either SLI™ or CrossFireX. The motherboard features the most powerful Intel P55 platform to optimize PCIe allocation in multiple GPU configurations. Expect a brand-new gaming style you've never experienced before!



#### PCIe 2.0

##### Double Speed; Double Bandwidth

This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.



### Memory Features

#### Dual-Channel DDR3 2000 / 1800 / 1600 / 1333 / 1066 support

The motherboard supports DDR3 memory that features data transfer rates of 2000 / 1800 / 1600 / 1333 / 1066 MHz to meet the higher bandwidth requirements of the latest 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture enlarges the bandwidth of your system memory to boost system performance.

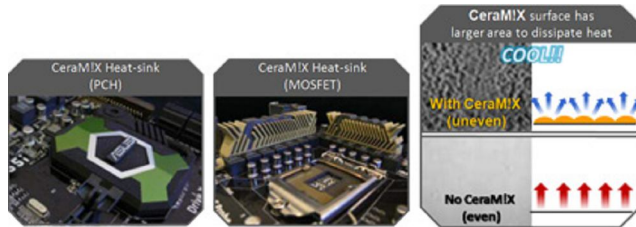


## "Ultimate COOL!" Thermal Solution

### CeraMIX - Heatsink Coating Tech.

**Larger area for heat dissipation with the revolutionary ceramics-coating technology**

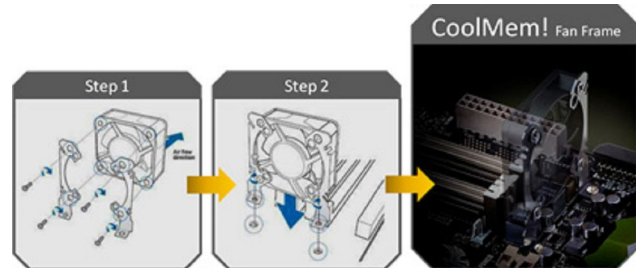
Innovative ceramics actively conducts heat away from the system. It replaces traditional anti-oxidant to dissipate heat better with its microscopic irregular surface and enlarged area. Better cooling leads to overall improvement in system stability.



### CoolMem! - Fan Frame

**Improves system stability and memory life**

CoolMem! fan frame provides an effective and easy DIY way to cool the memory. The frame encloses 40mm or 50mm fans and fits them directly over the memory module. CoolMem! Fan Frame keeps your memory under a proper operating temperature, helping your system cool and stable.



\* Available dimensions: 40mm x 40mm or 50mm x 50mm; the fan depth should be under 15mm

\* The fan is purchased separately

### T.Probe

**Leading Active Cooling Technology**

The T.Probe microchip detects and balances power phase loads and temperatures real-time. With optimal power phase functions, components run cooler and extend system lifespan.



### Fan Xpert

**Active Quiet & Cool**

Fan Xpert intelligently allows users to adjust both the CPU and chassis fan speed according to different ambient temperature, which is caused by different climate conditions in different geographic regions and system loading. Built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.



## "TUF ENGINE!" Power Design

### E.S.P. - Efficient Switching Power Design

**Optimal power efficiency for key components**

Exclusively for this motherboard, the switching power design is provided not only for the CPU, but also for other key components such as graphics card, PCI slots, and chipsets. E.S.P. dramatically improves system efficiency and reduces heat generation.



### TUF Cap. & MOSFET (certified by military-standard)

**Certified for Tough Duty**

Get rugged performance even in the most challenging conditions with robust capacitors and MOSFETs—certified through third-party, military-grade testing.



> [Click here to learn more on test report](#)



## "Safe & Stable!" Guardian Angel

### MemOK!

**Any Memory is A-OK!**

MemOK! quickly ensures memory boot compatibility. This remarkable memory rescue tool requires a mere push of a button to patch memory issues. MemOK! determines failsafe settings and dramatically improves your system boot success. Get your system up and running in no time!



### ASUS Drive Xpert

**Plug and Safe!**

Without BIOS setups, the ASUS exclusive Drive Xpert is ideal for anyone who needs to secure data on their hard drives or enhance hard drive performances without the hassles of complicated configurations. With Drive Xpert's user-friendly graphical user interface, users can easily arrange hard drive backups or enhance their hard drive transfer rates—making sure that data is looked after every moment, every day.



## ESD Guards

### Ultra-protection Against Electric Discharge

Electrostatic discharge (ESD) can happen suddenly and its damaging effects is often underestimated. Exclusive ASUS anti-static chip, a protective circuit design, and the I/O shield provides four times better protection to extend component lifespan.



## EMI Eliminator

### Eliminate Up to 30% Electric Interference

The design provides better protection against Electronic Magnetic Interference (EMI). More rigorous testing, at 30% higher than the benchmarks, ensure better shielding of sensitive components.



## ASUS Crystal Sound

### 10-channel Audio

#### Enjoy High-End 10-channel sound system on your PC!

The onboard 10-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. This motherboard now adopts the future standard to deliver the most vivid audio enjoyment!!



## Noise Filter

### Eliminate background noise while recording

This feature detects repetitive and stationary noises like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.



## DTS

### DTS Surround Sensation UltraPC

DTS Surround Sensation UltraPC delivers exceptional 5.1 surround experience through the most common PC audio setups - your existing stereo speakers or headphones. In addition to virtual surround, "Bass enhancement" provides stronger low frequency bass sound, and "Voice clarification" provides clear human dialogue even with loud background sound. With these technologies, you may experience a better home-theater audio with ease.



## ASUS EZ DIY

### ASUS Onboard Switch

With an easy press during overclock, this exclusive onboard switch allows gamer to effortless fine-tune the performance without having to short the pins!



### ASUS Q-Design

#### DIY quickly, DIY easily!

ASUS Q-Design enhances your DIY experience. All of Q-LED, Q-Slot and Q-DIMM design speed up and simplify the DIY process!



## Q- Shield

### Easy and Comfortable Installations

The specially designed ASUS Q-Shield does without the usual "fingers" - making it convenient and easy to install. With better electric conductivity, it ideally protects your motherboard against static electricity and shields it against Electronic Magnetic Interference (EMI).



## Q-Connector

### Make connection quick and accurate!

The ASUS Q-Connector allows you to connect or disconnect chassis front panel cables in one easy step with one complete module. This unique adapter eliminates the trouble of plugging in one cable at a time, making connection quick and accurate.



## EZ-Flash 2

### Simply update BIOS from a USB flash disk before entering the OS

EZ Flash 2 is a user-friendly BIOS update utility. Simply launch this tool and update BIOS from a USB flash disk before entering the OS. You can update your BIOS only in a few clicks without preparing an additional floppy diskette or using an OS-based



## O.C. Profile

### Conveniently store or load multiple BIOS settings

Freely share and distribute favorite overclocking settings The motherboard features the ASUS O.C. Profile that allows users to conveniently store or load multiple BIOS settings. The BIOS settings can be stored in the CMOS or a separate file, giving users freedom to share and distribute their favorite overclocking settings.



flash utility.

## Industry Standard

### IEEE 1394a interface

IEEE 1394a interface provides high speed digital interface for audio/video appliances such as digital television, digital video camcorders, storage peripherals & other PC portable devices.



### S/PDIF-out on Back I/O Port

This motherboard provides convenient connectivity to external home theater audio systems via coaxial and optical S/PDIF-out (SONY-PHILIPS Digital Interface) jacks. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.



## Specifications

CPU	Intel® Socket 1156 Core™ i7 Processor/Core™ i5 Processor Supports Intel® Turbo Boost Technology
Chipset	Intel® P55 Express Chipset
Memory	4 x DIMM, Max. 16 GB, DDR3 2000/1800/1600/1333/1066 Non-ECC, Un-buffered Memory Dual Channel memory architecture Supports Intel® Extreme Memory Profile (XMP) *Hyper DIMM support is subject to the physical characteristics of individual CPUs. Some hyper DIMMs only support one DIMM per channel. Refer to Memory QVL (Qualified Vendors List) for details. **Please visit <a href="http://www.asus.com">www.asus.com</a> or refer to the user manual for the Memory QVL.
Expansion Slots	2 x PCIe 2.0 x16 (single at x16 or dual at x8/x8 mode) 3 x PCIe 2.0 x1 (2.5GT/s) 2 x PCI
Multi-GPU Support	Supports NVIDIA® Quad-GPU SLI™ Technology Supports ATI® Quad-GPU CrossFireX™ Technology
Storage	<b>Intel® P55 Express Chipset built-in</b> 6 x SATA 3.0 Gb/s ports (black) Intel Matrix Storage Technology Support RAID 0,1,5,10  <b>JMicron® JMB363 PATA and SATA controller</b> 1 x UltraDMA 133/100/66 for up to 2 PATA devices 1 x External SATA (SATA On-the-Go) <b>JMicron® JMB322 (DriveXpert Technology) :</b> - 2 x SATA 3.0 Gb/s ports (orange and white ) - Supports EZ Backup and SuperSpeed functions *Drive Xpert function is available only when the hard disk drives are set as data drives
LAN	Realtek® 8112L PCIe Gigabit LAN controller featuring AI NET2
Audio	VIA® VT2020 10-Channel High Definition Audio CODEC - Absolute Pitch BD192/24 featuring ENVY HD - DTS Surround Sensation UltraPC - Supports Jack-Detection, Multi-streaming, Front Panel Jack-Retasking - Optical S/PDIF out port at back I/O - ASUS Noise Filter
IEEE 1394	VIA® 6308P controller supports 2 x 1394a ports (one at mid-board; one at back panel)
USB	14 USB 2.0/1.1 ports (6 ports at mid-board, 8 ports at back panel)
ASUS Unique Features	<b>Exclusive TUF Features</b> <b>"TUF ENGINE!" Power Design</b> - 12-phase CPU Power - 2-phase Memory Power - 2-phase VTT_CPU Power - E.S.P. : Efficient Switching Power Design for 3VSB/1.8V/1.05V - TUF Cap. & MOSFET (certified by military-standard)

	<b>"Ultimate COOL!" Thermal Solution</b> - CeraM!X Heatsink Coating Tech. - CoolMem! - T.Probe Technology - ASUS Fan Xpert <b>"Safe &amp; Stable!" Guardian Angel</b> - MemOK! - Drive Xpert - ESD Guards - EMI Eliminator
Special Features	ASUS Q-Connector ASUS Q-Shield ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) ASUS Q-Slot ASUS Q-DIMM ASUS CrashFree BIOS 3 ASUS EZ Flash 2 ASUS MyLogo 2 ASUS O.C. Profile Multi-language BIOS
Back Panel I/O Ports	1 x PS/2 Keyboard (Purple) 1 x PS/2 mouse port (Green) 1 x Optical S/PDIF Output 1 x IEEE1394a 1 x LAN (RJ45) port 1 x External SATA port 8 x USB 2.0/1.1 10-channel Audio I/O
Internal I/O Connectors	3 x USB connectors support additional 6 USB ports 1 x IDE connector 6 x SATA connectors 1 x IEEE 1394a connector 1 x CPU Fan connector 1 x Power Fan connector 2 x Drive Xpert SATA connectors (orange and white) 2 x Chassis Fan connector (1x4-pin, 1x3-pin) 1 x Mem Fan connector 1 x COM port Front panel audio connector 1 x S/PDIF Out Header CD audio in 24-pin ATX Power connector 1 x 8-pin ATX 12V Power connector System Panel(Q-Connector) 1 x MemOK! button 1 x Power on switch 1 x Reset switch
BIOS	16 Mb Flash ROM , AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI 2.0a,
Manageability	WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE
Accessories	User's manual 1 x UltraDMA 133/100/66 cable 6 x SATA cable(s) 1 x 2-port USB and eSATA module CoolMem Fan Frame ASUS Q-Shield 2 in 1 Q-connector 1 x ASUS SLI bridge connector
Support Disc	Drivers Anti-virus software (OEM version) ASUS Update ASUS Utilities
Form Factor	ATX Form Factor 12 inch x 9.6 inch ( 30.5 cm x 24.4 cm )